

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories Inc.
TestAmerica Seattle
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Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-18082-1
Client Project/Site: Rainier Commons

For:
Clean Harbors Environmental Services Inc
19320 Des Moines Memorial Dr
Bldg D, Suite 400
Seatac, Washington 98148

Attn: Shawn Estrada

Pamela R. Johnson

Authorized for release by:
3/14/2010 9:42 PM

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Job Narrative
580-18082-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC Semi VOA - Method 8082

Sample contained both aroclors PCB-1254 and PCB-1260. Due to overlap, shared peaks were deleted to avoid reporting high bias results.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.



Detection Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: Rainier Commons

TestAmerica Job ID: 580-18082-1

Client Sample ID: RC030510

Lab Sample ID: 580-18082-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
PCB-1254	0.49		0.012		mg/Kg	1	*		8082	Total/NA
PCB-1260	0.36		0.012		mg/Kg	1	*		8082	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Percent Solids	84		0.10		%	1			Moisture	Total/NA
Percent Moisture	16		0.10		%	1			Moisture	Total/NA

Analytical Data

Client: Clean Harbors Environmental Services Inc
Project/Site: Rainier Commons

TestAmerica Job ID: 580-18082-1

Client Sample ID: RC030510

Lab Sample ID: 580-18082-1

Date Collected: 03/05/10 00:00

Matrix: Solid

Date Received: 03/05/10 11:25

Percent Solids: 84.2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.012		mg/Kg	*	03/08/10 10:24	03/08/10 17:10	1
PCB-1221	ND		0.012		mg/Kg	*	03/08/10 10:24	03/08/10 17:10	1
PCB-1232	ND		0.012		mg/Kg	*	03/08/10 10:24	03/08/10 17:10	1
PCB-1242	ND		0.012		mg/Kg	*	03/08/10 10:24	03/08/10 17:10	1
PCB-1248	ND		0.012		mg/Kg	*	03/08/10 10:24	03/08/10 17:10	1
PCB-1254	0.49		0.012		mg/Kg	*	03/08/10 10:24	03/08/10 17:10	1
PCB-1260	0.36		0.012		mg/Kg	*	03/08/10 10:24	03/08/10 17:10	1

Surrogate

	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		45 - 155	03/08/10 10:24	03/08/10 17:10	1
DCB Decachlorobiphenyl	101		60 - 125	03/08/10 10:24	03/08/10 17:10	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84		0.10		%			03/08/10 17:27	1
Percent Moisture	16		0.10		%			03/08/10 17:27	1

Quality Control Data

Client: Clean Harbors Environmental Services Inc
Project/Site: Rainier Commons

TestAmerica Job ID: 580-18082-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-59437/1-A

Matrix: Solid

Analysis Batch: 59434

Client Sample ID: MB 580-59437/1-A

Prep Type: Total/NA

Prep Batch: 59437

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010		mg/Kg		03/08/10 10:24	03/08/10 15:54	1
PCB-1221	ND		0.010		mg/Kg		03/08/10 10:24	03/08/10 15:54	1
PCB-1232	ND		0.010		mg/Kg		03/08/10 10:24	03/08/10 15:54	1
PCB-1242	ND		0.010		mg/Kg		03/08/10 10:24	03/08/10 15:54	1
PCB-1248	ND		0.010		mg/Kg		03/08/10 10:24	03/08/10 15:54	1
PCB-1254	ND		0.010		mg/Kg		03/08/10 10:24	03/08/10 15:54	1
PCB-1260	ND		0.010		mg/Kg		03/08/10 10:24	03/08/10 15:54	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	119		45 - 155	03/08/10 10:24	03/08/10 15:54	1
DCB Decachlorobiphenyl	110		60 - 125	03/08/10 10:24	03/08/10 15:54	1

Lab Sample ID: LCS 580-59437/2-A

Matrix: Solid

Analysis Batch: 59434

Client Sample ID: LCS 580-59437/2-A

Prep Type: Total/NA

Prep Batch: 59437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	% Rec.	Limits
PCB-1016	0.100	0.0842		mg/Kg	84	40 - 140
PCB-1260	0.100	0.103		mg/Kg	103	60 - 130

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	112		45 - 155
DCB Decachlorobiphenyl	100		60 - 125

Lab Sample ID: 580-18069-E-5-C MS

Matrix: Solid

Analysis Batch: 59434

Client Sample ID: 580-18069-E-5-C MS

Prep Type: Total/NA

Prep Batch: 59437

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	% Rec.	Limits
PCB-1016	ND		0.103	0.0912		mg/Kg	88	40 - 140
PCB-1260	ND		0.103	0.109		mg/Kg	106	60 - 130

Surrogate	MS % Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	113		45 - 155
DCB Decachlorobiphenyl	101		60 - 125

Lab Sample ID: 580-18069-E-5-D MSD

Matrix: Solid

Analysis Batch: 59434

Client Sample ID: 580-18069-E-5-D MSD

Prep Type: Total/NA

Prep Batch: 59437

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	% Rec.	Limits	RPD	Limit
PCB-1016	ND		0.101	0.0920		mg/Kg	91	40 - 140	1	20
PCB-1260	ND		0.101	0.109		mg/Kg	108	60 - 130	0	20

Surrogate	MSD % Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	116		45 - 155
DCB Decachlorobiphenyl	104		60 - 125

TestAmerica Seattle

03/14/2010

Quality Control Data

Client: Clean Harbors Environmental Services Inc
Project/Site: Rainier Commons

TestAmerica Job ID: 580-18082-1

Method: Moisture - Percent Moisture

Lab Sample ID: 580-18106-C-1 DU

Matrix: Solid

Analysis Batch: 59487

Client Sample ID: 580-18106-C-1 DU

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	RPD	RPD
	Result	Qualifier	Result	Qualifier			Limit
Percent Solids	78		81		%	3	20
Percent Moisture	22		19		%	11	20

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Lab Chronicle

Client: Clean Harbors Environmental Services Inc
Project/Site: Rainier Commons

TestAmerica Job ID: 580-18082-1

Client Sample ID: RC030510

Lab Sample ID: 580-18082-1

Date Collected: 03/05/10 00:00

Matrix: Solid

Date Received: 03/05/10 11:25

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3550B		1	59437	03/08/10 10:24	KKJ	TestAmerica Seattle
Total/NA	Analysis	8082		1	59434	03/08/10 17:10	MAM	TestAmerica Seattle
Total/NA	Analysis	Moisture		1	59487	03/08/10 17:27	BAB	TestAmerica Seattle



Certification Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: Rainier Commons

TestAmerica Job ID: 580-18082-1

Laboratory	Program	Authority	EPA Region	Certification ID	Expiration Date
TestAmerica Seattle	DoD ELAP	L-A-B	0	L2236	01/19/13
TestAmerica Seattle	ISO/IEC 17025	L-A-B	0	L2236	01/19/13
TestAmerica Seattle	NELAC Primary AB	Oregon	10	WA100007	11/06/09
TestAmerica Seattle	NELAC Secondary AB	California	9	1115CA	01/31/10
TestAmerica Seattle	State Program	Washington	10	C1226	02/17/11
TestAmerica Seattle	USDA			P330-08-00099	05/22/11

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



Method Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: Rainier Commons

TestAmerica Job ID: 580-18082-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL TAC
Moisture	Percent Moisture	EPA	TAL TAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL TAC = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310



Sample Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: Rainier Commons

TestAmerica Job ID: 580-18082-1

Lab Sample ID	Client Sample ID	Matrix	Sampled	Received
580-18082-1	RC030510	Solid	03/05/10 00:00	03/05/10 11:25



Login Sample Receipt Check List

Client: Clean Harbors Environmental Services Inc

Job Number: 580-18082-1

Login Number: 18082

List Source: TestAmerica Tacoma

Creator: Presley, Kim

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Ambient
Cooler Temperature is acceptable.	True	received within 4 hours of sampling
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	False	
Sample Preservation Verified	N/A	

